



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
22.06.2011 Bulletin 2011/25

(51) Int Cl.:
H05B 41/292 (2006.01) H02M 3/335 (2006.01)

(43) Date of publication A2:
07.05.2003 Bulletin 2003/19

(21) Application number: **03003049.8**

(22) Date of filing: **15.05.1998**

(84) Designated Contracting States:
DE FR IT

(30) Priority: **16.05.1997 JP 12767797**

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
01119034.5 / 1 152 512
98108909.7 / 0 878 982

(71) Applicant: **DENSO CORPORATION**
Kariya-city,
Aichi-pref. 448-8661 (JP)

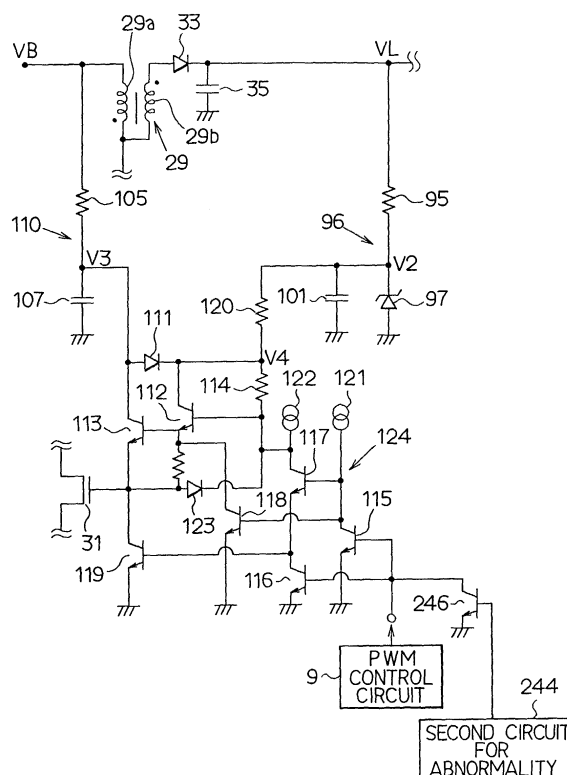
(72) Inventors:
• **Yamamoto, Noboru**
Kariya-city,
Aichi-pref., 448-8661 (JP)
• **Yoneima, Kenji**
Kariya-city,
Aichi-pref., 448-8661 (JP)

(74) Representative: **TBK**
Bavariaring 4-6
80336 München (DE)

(54) **High voltage discharge lamp device**

(57) The present invention relates to a discharge lamp device which comprises a power source (1); a discharge lamp (2); a transformer (29) comprising a primary side connected to a side of the power source (1) and a secondary side connected on a side of the discharge lamp (2) for transforming a power source voltage (VB) of the power source into a high voltage; a switching element (31) for the primary side for controlling a power of the discharge lamp (2) by controlling a primary current of the transformer (29); a drive circuit (124) for driving the switching element (31) for the primary side; and a first power source circuit (96) connected on the secondary side of the transformer (29) for changing a voltage on the secondary side into a first predetermined voltage (V4). The drive circuit (124) is provided with a drive power source from the first power source circuit (124).

FIG. 5





EUROPEAN SEARCH REPORT

Application Number
EP 03 00 3049

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	DE 195 37 876 A1 (NIPPON DENSO CO [JP]) 18 April 1996 (1996-04-18) * column 3, line 35 - column 6, line 21 * * column 7, line 1 - column 7, paragraph 41; figure 1 *	1-3	INV. H05B41/292 H02M3/335
X	EP 0 439 240 A2 (SEMPERLUX GMBH [DE]) 31 July 1991 (1991-07-31) * column 3, line 13 - column 5, line 47; figure 1 *	4-7	
			TECHNICAL FIELDS SEARCHED (IPC)
			H05B H02H H02M
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 13 May 2011	Examiner Speiser, Pierre
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

1
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 00 3049

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

13-05-2011

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
DE 19537876	A1	18-04-1996	JP	8111292 A	30-04-1996

EP 0439240	A2	31-07-1991	AT	124202 T	15-07-1995
			DE	4018865 A1	19-12-1991
